

[ TABLES FOR THE EVALUATION OF THE FAXÉN APPROXIMATION TO  
THE SOLUTION OF THE LAMM EQUATION ]

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## **ABSTRACT**

**A table is presented to facilitate the calculation of the Faxén approximation to the concentration and concentration gradient. The table is accurate to within one figure in the last place, and can be used both for no sedimentation dependence on concentration and for the dependence  $s = s_0(1 - kc)$ .**

The Faxén approximation to the solution of the Lamm equation has proved to be of considerable utility in the analysis of data from velocity sedimentation experiments with the ultracentrifuge, [1]. It has recently been shown that the Faxén solution to the nonlinear Lamm equation which arises when the sedimentation coefficient  $s$  is related to concentration  $c$  by  $s=s_0(1-kc)$  can be written in terms of the Faxén solution for  $k=0$ , [2]. Because of this wide range of applicability of the Faxén solution, it is appropriate to present a table to facilitate the calculation of concentration and concentration gradients in that approximation. The best known of earlier, equivalent tables, are those of Opler and Hiester, [3]. Their tabulation gives very few values of the relevant function in the range of interest for ultracentrifuge work. A thorough analysis of mathematical properties of the function arising from the Faxén solution has been published by Goldstein, [4]. Other applications of the tabulated function are to be found in the theory of noise, [5], and in the theory of ion exchange columns, [6].

Let us summarize the relevant facts on the Faxén solution. It is assumed that the concentration in the

ultracentrifuge is  $c(r, t)$ , where  $r$  is the radius and  $t$  the time, with  $c(r, 0) = c_0$ , a constant. Let  $r_0$  denote radial distance to the meniscus,  $\omega$  the frequency of revolution,  $D$  the diffusion coefficient. The Faxén solution is most conveniently written in terms of the new variables:

$$\theta = c/c_0, \quad x = (r/r_0)^2, \quad \tau = 2\omega^2 s_0 t$$

$$\alpha = kc_0, \quad \epsilon = 2D/(s_0 \omega^2 r_0^2), \quad z = 2\sqrt{xe^{-\tau}}, \quad \zeta = 1 - e^{-\tau} \quad (1)$$

When  $k=0$ , or equivalently, when  $\alpha=0$ , the Faxén expression for  $\theta(z, \zeta)$  is

$$\theta_0(z, \zeta) = \frac{1-\zeta}{2\epsilon\zeta} \int_z^\infty \zeta' e^{-\frac{(z^2+z'^2)}{4\epsilon\zeta'}} I_0\left(\frac{z\zeta'}{2\epsilon\zeta}\right) d\zeta' \quad (2)$$

When  $\alpha > 0$  we have

$$\theta_\alpha(z, \zeta) = \frac{1-\zeta}{1-(1+\alpha)\zeta} \frac{\theta_0(z^*, \zeta^*) e^{-\frac{\alpha}{\zeta} [1 - \frac{z^2}{4(1-\alpha\zeta)}]}}{\left\{ 1 + \frac{1-\alpha\zeta}{1-(1+\alpha)\zeta} \theta_0(z^*, \zeta^*) e^{-\frac{\alpha}{\zeta} [1 - \frac{z^2}{4(1-\alpha\zeta)}]} - \frac{1}{1-\zeta} \theta_0(z, \zeta) \right\}} \quad (3)$$

where

$$z^* = z(1-\alpha\zeta)^{-1}, \quad \zeta^* = \zeta(1-\alpha\zeta)^{-1} \quad (4)$$

Hence  $\theta_\alpha(z, \zeta)$  can be represented in terms of  $\theta_0(z, \zeta)$ .

In the following pages we tabulate values of the functions

$$\Psi(y, \eta) = \frac{1}{2\eta} \int_2^\infty \sigma e^{-\frac{(\sigma^2 + y^2)}{4\eta}} I_0\left(\frac{\sigma y}{2\eta}\right) d\sigma \quad (5)$$

$$\frac{\partial \Psi(y, \eta)}{\partial y} = \frac{1}{4\eta^2} \int_2^\infty \sigma e^{-\frac{(\sigma^2 + y^2)}{4\eta}} \left[ \sigma I_1\left(\frac{\sigma y}{2\eta}\right) - y I_0\left(\frac{\sigma y}{2\eta}\right) \right] d\sigma \quad (6)$$

accurate to at least four places with a possible error of 1 in the last place. The intervals of tabulation in  $\eta$  are  $\eta = 10^{-6}$  ( $10^{-6}$ )  $10^{-5}$  ( $10^{-5}$ )  $10^{-4}$  ( $10^{-4}$ )  $10^{-3}$ . For each value of  $\eta$  we choose from 28 to 80 steps in  $y$  so that  $\Psi(y, \eta)$  lies in the range (.005, .995).

The solutions for concentration and concentration gradients in terms of the tabulated functions are

$$\theta_0(z, \varsigma) = (1-\varsigma) \Psi(z, \epsilon \varsigma) \quad (7)$$

$$\frac{\partial \theta_0(z, \varsigma)}{\partial (\tau/\tau_0)} = 2(1-\varsigma)^{3/2} \frac{\partial \Psi(z, \epsilon \varsigma)}{\partial z} \quad (8)$$

for  $a=0$ , and

$$\frac{\partial \theta_\alpha(z,y)}{\partial (r/r_0)} = \frac{1}{(1-\alpha y)F} \frac{\partial \theta_0(z,y)}{\partial (r/r_0)} + \frac{1-y-\theta_0(z,y)}{(1-\alpha y)F^2} \\ \times \left\{ \frac{1}{1-(1+\alpha)y} \left[ (1-\alpha y) \frac{\partial \theta_0(z^*,y^*)}{\partial (r/r_0)} + \frac{1-z}{\epsilon} (1-y)^{\frac{1}{\alpha}} \theta_0(z^*,y^*) \right] e^{-\frac{z}{\epsilon} [1 - \frac{z^2}{4(1-\alpha y)}]} \right. \\ \left. - \frac{1}{1-y} \frac{\partial \theta_0(z,y)}{\partial (r/r_0)} \right\} \quad (9)$$

for  $\alpha > 0$ , where

$$F = 1 + \frac{1-\alpha y}{1-(1+\alpha)y} \theta_0(z^*,y^*) e^{-\frac{z^2}{\epsilon} [1 - \frac{z^2}{4(1-\alpha y)}]} - \frac{1}{1-y} \theta_0(z,y). \quad (10)$$

The integrals were evaluated using Simpson's rule.

The interval of integration  $h$  was varied from  $2 \times 10^{-5}$  to  $10^{-3}$  for different values of  $y$  and  $\eta$ , so as always to meet the requirements of accuracy. The integration was stopped when the integrand was less than  $10^{-25}$ . As a check on our accuracy, the integration was performed twice; once over the interval  $(2, \infty)$  and once over the interval  $(0, 2)$  with the appropriate integrals derived from the formulas

$$\frac{1}{2\eta} \int_2^\infty \sigma e^{-\frac{(\sigma^2+y^2)}{4\eta}} I_0\left(\frac{\sigma y}{2\eta}\right) d\sigma = 1 - \frac{1}{2\eta} \int_0^2 \sigma e^{-\frac{(\sigma^2+y^2)}{4\eta}} I_0\left(\frac{\sigma y}{2\eta}\right) d\sigma \quad (11)$$

and

$$\int_1^{\infty} \sigma e^{-\frac{(\sigma^2 + y^2)}{4\eta}} [\sigma I_1\left(\frac{\sigma y}{2\eta}\right) - y I_0\left(\frac{\sigma y}{2\eta}\right)] d\sigma = - \int_0^{\infty} \sigma e^{-\frac{(\sigma^2 + y^2)}{4\eta}} [\sigma I_1\left(\frac{\sigma y}{2\eta}\right) - y I_0\left(\frac{\sigma y}{2\eta}\right)] d\sigma. \quad (12)$$

Since the argument of the Bessel functions was always greater than 1200, the asymptotic expansions

$$I_0(x) \sim \frac{e^x}{\sqrt{2\pi x}} \left[ 1 + \frac{1}{1!(8x)} + \frac{3^2}{2!(8x)^2} + \frac{3^2 5^2}{3!(8x)^3} + \dots \right] \quad (13)$$

$$I_1(x) \sim \frac{e^x}{\sqrt{2\pi x}} \left[ 1 - \frac{3}{1!(8x)} - \frac{3.5}{2!(8x)^2} - \frac{3^2 5.7}{3!(8x)^3} - \dots \right] \quad (14)$$

were used to evaluate these Bessel functions.

All the calculations are accurate to within one figure in the fifth place. Eight place tables are available from the authors, as well as a tabulation for the range  $.001 < \eta \leq .01$ .

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System.  
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## RANGES OF TABULATION

ETA = 0.000001	Y = 1.9760(0.0005)1.9985(0.0002)2.3322(0.0003)2.7025(0.0005)2.0040	30 ENTRIES ON PAGE 1
ETA = 0.000002	Y = 1.9745(0.0005)1.9970(0.0002)2.0032(0.0003)2.0035(0.0005)2.0050	40 ENTRIES ON PAGE 2
ETA = 0.000003	Y = 1.9735(0.0005)1.9965(0.0003)1.9968(0.0002)2.0034(0.0003)2.0040(0.0005)2.0065	48 ENTRIES ON PAGE 3
ETA = 0.000004	Y = 1.9730(0.0005)1.9960(0.0002)2.0042(0.0003)2.0045(0.0005)2.0070	54 ENTRIES ON PAGE 4
ETA = 0.000005	Y = 1.9729(0.0005)1.9955(0.0003)1.9958(0.0002)2.0044(0.0003)2.0050(0.0005)2.0080	60 ENTRIES ON PAGE 5
ETA = 0.000006	Y = 1.9710(0.0005)1.9950(0.0003)1.9956(0.0002)2.0050(0.0005)2.0090	66 ENTRIES ON PAGE 6
ETA = 0.000007	Y = 1.9705(0.0005)1.9950(0.0002)2.0052(0.0003)2.0055(0.0005)2.0095	70 ENTRIES ON PAGE 7
ETA = 0.000008	Y = 1.9695(0.0005)1.9950(0.0002)2.0052(0.0003)2.0055(0.0005)2.0105	74 ENTRIES ON PAGE 8
ETA = 0.000009	Y = 1.9690(0.0005)1.9945(0.0003)1.9948(0.0002)2.0054(0.0003)2.0060(0.0005)2.0110	78 ENTRIES ON PAGE 9
ETA = 0.000010	Y = 1.9685(0.0005)1.9943(0.0003)1.9948(0.0002)2.0054(0.0003)2.0060(0.0005)2.0115	80 ENTRIES ON PAGE 10
ETA = 0.000020	Y = 1.9825(0.0025)1.9900(0.0010)2.0110(0.0015)2.0125(0.0025)2.0175	28 ENTRIES ON PAGE 11
ETA = 0.000030	Y = 1.9800(0.0025)1.9900(0.0010)2.0110(0.0015)2.0125(0.0025)2.0200	30 ENTRIES ON PAGE 12
ETA = 0.000040	Y = 1.9775(0.0025)1.9875(0.0015)1.9890(0.0010)2.0110(0.0015)2.0125(0.0025)2.0225	32 ENTRIES ON PAGE 13
ETA = 0.000050	Y = 1.9750(0.0025)1.9850(0.0015)1.9880(0.0010)2.0150(0.0025)2.0250	38 ENTRIES ON PAGE 14
ETA = 0.000060	Y = 1.9725(0.0025)1.9850(0.0010)2.0160(0.0015)2.0175(0.0025)2.0275	42 ENTRIES ON PAGE 15
ETA = 0.000070	Y = 1.9700(0.0025)1.9850(0.0010)2.0160(0.0015)2.0175(0.0025)2.0300	44 ENTRIES ON PAGE 16
ETA = 0.000080	Y = 1.9675(0.0025)1.9825(0.0015)1.9840(0.0010)2.0170(0.0015)2.0200(0.0025)2.0325	48 ENTRIES ON PAGE 17
ETA = 0.000090	Y = 1.9650(0.0025)1.9800(0.0010)2.0210(0.0015)2.0225(0.0025)2.0350	54 ENTRIES ON PAGE 18
ETA = 0.000100	Y = 1.9625(0.0025)1.9800(0.0010)2.0210(0.0015)2.0225(0.0025)2.0375	56 ENTRIES ON PAGE 19
ETA = 0.000200	Y = 1.9570(0.0050)1.9700(0.0030)1.9760(0.0020)2.0300(0.0050)2.0500	38 ENTRIES ON PAGE 20
ETA = 0.000300	Y = 1.9350(0.0050)1.9700(0.0020)2.0320(0.0030)2.0350(0.0050)2.0650	46 ENTRIES ON PAGE 21
ETA = 0.000400	Y = 1.9250(0.0050)1.9600(0.0030)1.9660(0.0020)2.0400(0.0050)2.0750	54 ENTRIES ON PAGE 22
ETA = 0.000500	Y = 1.9200(0.0050)1.9550(0.0030)1.9580(0.0020)2.0440(0.0030)2.0500(0.0050)2.0800	60 ENTRIES ON PAGE 23
ETA = 0.000600	Y = 1.9130(0.0050)1.9500(0.0030)1.9560(0.0020)2.0500(0.0050)2.0900	66 ENTRIES ON PAGE 24
ETA = 0.000700	Y = 1.9050(0.0050)1.9500(0.0020)2.0520(0.0030)2.0550(0.0050)2.0950	70 ENTRIES ON PAGE 25
ETA = 0.000800	Y = 1.9000(0.0050)1.9450(0.0020)2.0540(0.0030)2.0600(0.0050)2.1000	74 ENTRIES ON PAGE 26
ETA = 0.001000	Y = 1.8900(0.0050)1.9450(0.0030)1.9480(0.0020)2.0540(0.0030)2.0600(0.0050)2.1100	78 ENTRIES ON PAGE 27
ETA = 0.001200	Y = 1.8850(0.0050)1.9450(0.0030)1.9480(0.0020)2.0540(0.0030)2.0600(0.0050)2.1150	80 ENTRIES ON PAGE 28

PAGE 1  
TABLE FOR THE EVALUATION OF THE FAXEN APPROXIMATION TO THE SOLUTION OF THE LAMM EQUATION

$\eta = 0.000001$

$\eta$	$\psi(\eta, \eta)$	$D\psi(\eta, \eta)/D\eta$	$\eta$	$\psi(\eta, \eta)$	$D\psi(\eta, \eta)/D\eta$
1.9960	0.234140-02	C.517180 .01	2.0002	0.556370 00	0.279270 03
1.9965	0.667070-02	C.132050 02	2.0004	0.611490 00	0.271010 03
1.9970	0.169620-01	C.297550 02	2.0006	0.664440 00	0.257780 03
1.9975	0.385790-01	C.591670 02	2.0008	0.714320 00	0.240340 03
1.9980	0.787010-01	C.103830 03	2.0010	0.760360 00	0.219640 03
1.9982	0.101610-00	C.125550 03	2.0012	0.802030 00	0.196750 03
1.9984	0.129020-00	C.148810 03	2.0014	0.838990 00	0.172760 03
1.9986	0.161190-00	C.172880 03	2.0016	0.871120 00	0.148690 03
1.9988	0.198170-00	C.196870 03	2.0018	0.898520 00	0.125440 03
1.9990	0.239860-00	C.219750 03	2.0020	0.921400 00	0.103730 03
1.9992	0.285920-00	C.240430 03	2.0022	0.940140 00	0.840760 02
1.9994	0.335810-00	C.257850 03	2.0025	0.961480 00	0.590940 02
1.9996	0.388870-00	C.271060 03	2.0030	0.983070 00	0.297100 02
1.9998	0.443910-00	C.279300 03	2.0035	0.993340 00	0.131820 02
2.0000	0.5000140 00	C.282090 03	2.0040	0.997660 00	0.516160 01

TABLE FOR THE EVALUATION OF THE FAXEN APPROXIMATION TO THE SOLUTION OF THE LAMM EQUATION

PAGE 2

ETA = C.000300

Y	PSI(Y,ETA)	DPSI(Y,ETA)/DY	Y	PSI(Y,ETA)	DPSI(Y,ETA)/DY
1.9350	0.40558C-02	C.48967D-00	2.0020	0.53497D-00	0.16224D-02
1.9400	0.72774D-02	C.82326D-00	2.0040	0.56727D-00	0.16054D-02
1.9450	0.12573D-01	C.13276D-01	2.0060	0.59912D-00	0.15781D-02
1.9500	0.20923D-01	C.20237D-01	2.0080	0.63032D-00	0.15409D-02
1.9550	0.33556D-01	C.30470D-01	2.0100	0.66069D-00	0.14946D-02
1.9600	0.51889D-01	C.43365D-01	2.0120	0.69005D-00	0.14401D-02
1.9650	0.77413D-01	C.59197D-01	2.0140	0.71825D-00	0.13784D-02
1.9700	0.11150D-00	C.77512D-01	2.0160	0.74515D-00	0.13105D-02
1.9720	0.127778D-00	C.85336D-01	2.0180	0.77064D-00	0.12377D-02
1.9740	0.14565D-00	C.93225D-01	2.0200	0.79463D-00	0.11611D-02
1.9760	0.16512D-00	C.10138D-02	2.0220	0.81707D-00	0.10821D-02
1.9780	0.18629D-00	C.10941D-02	2.0240	0.83790D-00	0.10017D-02
1.9800	0.20887D-00	C.11728D-02	2.0260	0.85713D-00	0.92120D-01
1.9820	0.23309C-00	C.12489D-02	2.0280	0.87476D-00	0.64150D-01
1.9840	0.25880D-00	C.13210D-02	2.0300	0.89081D-00	0.76358D-01
1.9860	0.28590C-00	C.13880D-02	2.0320	0.90532D-00	0.688828D-01
1.9880	0.31428D-00	C.14488D-02	2.0350	0.92425D-00	0.58170D-01
1.9900	0.34380D-00	C.15021D-02	2.0400	0.94940D-00	0.42516D-01
			2.0450	0.96735D-00	0.29792D-01
			2.0500	0.97969D-00	0.20029D-01
1.9920	0.37431D-00	C.15471D-02	2.0550	0.98782D-00	0.12916D-01
1.9940	0.40562D-00	C.15828D-02	2.0600	0.99297D-00	0.79873D-00
1.9960	0.43756D-00	C.16086D-02	2.0650	0.99609D-00	0.47401D-00
1.9980	0.46990C-00	C.16240D-02			
2.0000	0.50244D-00	C.16286D-02			

TABLE FOR THE EVALUATION OF THE FAXEN APPROXIMATION TO THE SOLUTION OF THE LAMM EQUATION

PAGE 3

$$\text{ETA} = 0.000003$$

$\gamma$	$\text{PSI}(\gamma, \text{ETA})$	$D\text{PSI}(\gamma, \text{ETA})/D\gamma$	$\gamma$	$\text{PSI}(\gamma, \text{ETA})$	$D\text{PSI}(\gamma, \text{ETA})/D\gamma$
1.9935	0.39890D-02	C.48246D 01	2.0002	0.53278D 00	0.16232D 03
1.9940	0.71651D-02	C.81208D 01	2.0004	0.56510D 00	0.16069D 03
1.9945	0.12392D-01	C.13111D 02	2.0006	0.59699D 00	0.15803D 03
1.9950	0.20644D-01	0.20305D 02	2.0008	0.62825D 00	0.15438D 03
			2.0010	0.65868D 00	0.14981D 03
1.9955	0.33141D-01	C.30161D 02	2.0012	0.68811D 00	0.14441D 03
1.9960	0.51232D-01	C.42974D 02	2.0014	0.71634D 00	0.13828D 03
1.9965	0.76609D-01	C.58732D 02	2.0016	0.74338D 00	0.13153D 03
1.9968	0.95814D-01	C.69436D 02	2.0018	0.76897D 00	0.12427D 03
1.9970	0.11045D-00	C.76991D 02	2.0020	0.79307D 00	0.11664D 03
1.9972	0.12663D-00	C.84801D 02	2.0022	0.81561D 00	0.10875D 03
1.9974	0.14438D-00	C.92782D 02	2.0024	0.83656D 00	0.10072D 03
1.9976	0.16375D-00	C.10084D 03	2.0026	0.85590D 00	0.92661D 02
1.9978	0.18472D-00	C.10887D 03	2.0028	0.87363D 00	0.84682D 02
1.9980	0.20728D-00	C.11676D 03	2.0030	0.88978D 00	0.76875D 02
1.9982	0.23140D-00	C.12439D 03	2.0032	0.90440D 00	0.69325D 02
1.9984	0.25701D-00	C.13163D 03	2.0034	0.91753D 00	0.62101D 02
1.9986	0.28402D-00	C.13837D 03	2.0037	0.93462D 00	0.51997D 02
1.9988	0.31232D-00	C.14449D 03	2.0040	0.94883D 00	0.42889D 02
1.9990	0.34177D-00	C.14988D 03	2.0045	0.96695D 00	0.30094D 02
1.9992	0.37222D-00	C.15444D 03	2.0050	0.97942D 00	0.20254D 02
1.9994	0.40349D-00	C.15808D 03	2.0055	0.98765D 00	0.13076D 02
1.9996	0.43538D-00	C.16073D 03	2.0060	0.99286D 00	0.80967D 01
1.9998	0.46771D-00	C.16233D 03	2.0065	0.99603D 00	0.48091D 01
2.0000	0.50025D 00	C.16287D 03			

TABLE FOR THE EVALUATION OF THE FAXEN APPROXIMATION TO THE SOLUTION OF THE LAMM EQUATION

PAGE 4

ETA = 0.0000004

Y	PSI(Y, ETA)	CPSI(Y, ETA)/DY	Y	PSI(Y, ETA)	DPSI(Y, ETA)/DY
1.9930	0.66773D-02	0.66084D 01	2.0002	0.52847D 00	0.14069D 03
1.9935	0.10798D-01	C.10075D 02	2.0004	0.55651D 00	0.13963D 03
			2.0006	0.58427D 00	0.13789D 03
			2.0008	0.61162D 00	0.13549D 03
1.9940	0.16977D-01	C.14888D 02	2.0012	0.66457D 00	0.12887D 03
1.9945	0.25957D-01	0.21324D 02	2.0014	0.68994D 00	0.12474D 03
1.9950	0.38609D-01	C.29602D 02	2.0016	0.71444D 00	0.12014D 03
1.9955	0.55885D-01	C.39829D 02	2.0018	0.73797D 00	0.11514D 03
1.9960	0.78754D-01	C.51940D 02	2.0020	0.76047D 00	0.10979D 03
1.9962	0.89666D-01	0.57257D 02	2.0022	0.78187D 00	0.10417D 03
1.9964	0.10167D-00	C.62880D 02	2.0024	0.80213D 00	0.98346D 02
1.9966	0.11480D-00	C.68542D 02	2.0026	0.82120D 00	0.92383D 02
1.9968	0.12910D-00	0.74433D 02	2.0028	0.83907D 00	0.86349D 02
1.9970	-0.14458D-00	0.80427D 02	2.0030	0.85574D 00	0.80306D 02
1.9972	0.16127D-00	0.86470D 02	2.0032	0.87120D 00	0.74314D 02
1.9974	0.17917D-00	0.92504D 02	2.0034	0.88547D 00	0.68425D 02
1.9976	0.19827D-00	0.98465D 02	2.0036	0.89858D 00	0.62689D 02
1.9978	0.21859D-00	0.10429D 03	2.0038	0.91056D 00	0.57148D 02
1.9980	0.23999D-00	0.10990D 03	2.0040	0.92145D 00	0.51836D 02
1.9982	0.26249D-00	0.11524D 03	2.0042	0.93131D 00	0.46784D 02
1.9984	0.28660D-00	0.12024D 03	2.0045	0.94427D 00	0.39740D 02
1.9986	0.31056D-00	0.12483D 03	2.0050	0.96151D 00	0.29528D 02
1.9988	0.33595D-00	0.12895D 03	2.0055	0.97413D 00	0.21266D 02
1.9990	0.36210D-00	C.13253D 03	2.0060	0.98308D 00	0.14844D 02
1.9992	0.38892D-00	C.13554D 03	2.0065	0.98924D 00	0.10043D 02
1.9994	0.41628D-00	0.13793D 03	2.0070	0.99335D 00	0.65854D 01
1.9996	0.44405D-00	0.13966D 03			
1.9998	0.47210D-00	0.14070D 03			
2.0000	0.50028D 00	C.14105D 03			

TABLE FOR THE EVALUATION OF THE FAXEN APPROXIMATION TO THE SOLUTION OF THE LAMM EQUATION

PAGE 5

ETA = 0.000005

Y	PSI(Y,ETA)	DPSI(Y,ETA)/DY	Y	PSI(Y,ETA)	DPSI(Y,ETA)/DY
1.9920	0.57189D-02	0.51527D 01	2.0002	0.52553D 00	0.12590D 03
1.9925	0.88720D-02	0.75905D 01	2.0004	0.55064D 00	0.12514D 03
1.9930	0.13456D-01	0.10906D 02	2.0006	0.57555D 00	0.12389D 03
1.9935	0.19955D-01	0.15282D 02	2.0008	0.60016D 00	0.12216D 03
1.9940	0.28942D-01	0.20885D 02	2.0010	0.62438D 00	0.11997D 03
1.9945	0.41065D-01	0.27838D 02	2.0012	0.64812D 00	0.11736D 03
1.9950	0.57014D-01	0.36190D 02	2.0014	0.67130D 00	0.11434D 03
1.9955	0.77479D-01	0.45988D 02	2.0016	0.69384D 00	0.11096D 03
1.9958	0.92193D-01	0.52278D 02	2.0018	0.71566D 00	0.10724D 03
1.9960	0.10309D-00	0.56742D 02	2.0020	0.73671D 00	0.10324D 03
1.9962	0.11490D-00	0.61342D 02	2.0022	0.75624D 00	0.98986D 02
1.9964	0.12764D-00	0.66051D 02	2.0024	0.77629D 00	0.94531D 02
1.9966	0.14132D-00	0.70836D 02	2.0026	0.79474D 00	0.89916D 02
1.9968	0.15597D-00	0.75665D 02	2.0028	0.81225D 00	0.85185D 02
1.9970	0.17159D-00	0.80501D 02	2.0030	0.82881D 00	0.80381D 02
1.9972	0.18817D-00	0.85304D 02	2.0032	0.84440D 00	0.75545D 02
1.9974	0.20571D-00	0.90033D 02	2.0034	0.85903D 00	0.70716D 02
1.9976	0.22418D-00	0.94644D 02	2.0036	0.87269D 00	0.65932D 02
1.9978	0.24355D-00	0.99094D 02	2.0038	0.88554D 00	0.61226D 02
1.9980	0.26380D-00	0.10334D 03	2.0040	0.89719D 00	0.566629D 02
1.9982	0.28487D-00	0.10734D 03	2.0042	0.90807D 00	0.52168D 02
1.9984	0.30672D-00	0.11104D 03	2.0044	0.91807D 00	0.47867D 02
1.9986	0.32927D-00	0.11442D 03	2.0047	0.93150D 00	0.41756D 02
1.9988	0.35246D-00	0.11743D 03	2.0050	0.94317D 00	0.36099D 02
1.9990	0.37621D-00	0.12003D 03	2.0055	0.95907D 00	0.277762D 02
1.9992	0.40045D-00	0.12221D 03	2.0060	0.97116D 00	0.20822D 02
1.9994	0.42507D-00	0.12392D 03	2.0065	0.98012D 00	0.15232D 02
1.9996	0.44998D-00	0.12516D 03	2.0070	0.98660D 00	0.10866D 02
1.9998	0.47510D-00	0.12591D 03	2.0075	0.99117D 00	0.75621D 01
2.0000	0.50031D 00	0.12616D 03	2.0080	0.99431D 00	0.51322D 01

TABLE FOR THE EVALUATION OF THE FAXEN APPROXIMATION TO THE SOLUTION OF THE LAMM EQUATION

PAGE 6

$$\text{ETA} = 0.0000006$$

$\gamma$	$\text{PSI}(\gamma, \text{ETA})$	$\text{CPSI}(\gamma, \text{ETA})/\delta\gamma$	$\gamma$	$\text{PSI}(\gamma, \text{ETA})$	$\text{DPSI}(\gamma, \text{ETA})/\delta\gamma$
1.9910	0.46992D-02	C.39496D 01	2.0002	0.52336D 00	0.11497D 03
1.9915	0.70860D-02	0.56864D 01	2.0004	0.54631D 00	0.11439D 03
1.9920	0.10485D-01	C.80161D 01	2.0006	0.56910D 00	0.11343D 03
			2.0008	0.59166D 00	0.11211D 03
			2.0010	0.61392D 00	0.11044D 03
1.9925	0.15225D-01	C.11073D 02	2.0012	0.63581D 00	0.10843D 03
1.9930	0.21699D-01	C.14976D 02	2.0014	0.65727D 00	0.10610D 03
1.9935	0.30360D-01	0.19837D 02	2.0016	0.67823D 00	0.10347D 03
1.9940	0.41709D-01	0.25735D 02	2.0018	0.69864D 00	0.10058D 03
1.9945	0.56274D-01	C.32698D 02	2.0020	0.71844D 00	0.97436D 02
1.9950	0.74579D-01	C.40689D 02	2.0022	0.73760D 00	0.94080D 02
1.9953	0.87564D-01	C.45930D 02	2.0024	0.75606D 00	0.90537D 02
1.9956	0.10217D-00	0.51460D 02	2.0026	0.77380D 00	0.86838D 02
1.9958	0.11284D-00	C.55280D 02	2.0028	0.79079D 00	0.83013D 02
1.9960	0.12428D-00	C.59187D 02	2.0030	0.80700D 00	0.79092D 02
1.9962	0.13652D-00	0.63158D 02	2.0032	0.82242D 00	0.75106D 02
1.9964	0.14955D-00	C.67172D 02	2.0034	0.83704D 00	0.71083D 02
1.9966	0.16339D-00	0.71204D 02	2.0036	0.85085D 00	0.67052D 02
1.9968	0.17803D-00	0.75226D 02	2.0038	0.86386D 00	0.63039D 02
1.9970	0.19348D-00	C.79211D 02	2.0040	0.87607D 00	0.59068D 02
1.9972	0.20971D-00	C.83129D 02	2.0042	0.88749D 00	0.55164D 02
1.9974	0.22672D-00	0.86951D 02	2.0044	0.89814D 00	0.51347D 02
1.9976	0.24448D-00	C.90646D 02	2.0046	0.90804D 00	0.47634D 02
1.9978	0.26297D-00	0.94184D 02	2.0048	0.91720D 00	0.44043D 02
1.9980	0.28214D-00	C.97533D 02	2.0050	0.92566D 00	0.40587D 02
1.9982	0.30197D-00	0.10067D 03	2.0055	0.94392D 00	0.32608D 02
1.9984	0.32239D-00	C.10355D 03	2.0060	0.95844D 00	0.25658D 02
1.9986	0.34337D-00	0.10617D 03	2.0065	0.96976D 00	0.19777D 02
1.9988	0.36484D-00	0.10849D 03	2.0070	0.97839D 00	0.14924D 02
1.9990	0.38675D-00	C.11049D 03	2.0075	0.98484D 00	0.11111D 02
1.9992	0.40902D-00	0.11216D 03	2.0080	0.98956D 00	0.79860D 01
1.9994	0.43159D-00	0.11347D 03	2.0085	0.99295D 00	0.56622D 01
1.9996	0.45438D-00	0.11441D 03	2.0090	0.99532D 00	0.39318D 01
1.9998	0.47732D-00	C.11498D 03			
2.0000	0.50035D 00	C.11516D 03			

TABLE FOR THE EVALUATION OF THE FAXEN APPROXIMATION TO THE SOLUTION OF THE LAMM EQUATION

PAGE 7

ETA = 0.000007

Y	PSI(Y,ETA)	DPSI(Y,ETA)/DY	Y	PSI(Y,ETA)	DPSI(Y,ETA)/DY
1.9905	0.557360-02	0.425650 01	2.0002	0.521690 00	0.106460 03
1.9910	0.809910-02	0.592200 01	2.0004	0.542940 00	0.106000 03
1.9915	0.115800-01	0.809340 01	2.0006	0.564070 00	0.105240 03
1.9920	0.162930-01	0.108650 02	2.0008	0.585020 00	0.104190 03
1.9925	0.225600-01	0.143280 02	2.0010	0.605730 00	0.102860 03
1.9930	0.307490-01	0.185600 02	2.0012	0.626140 00	0.101250 03
1.9935	0.412590-01	0.236170 02	2.0014	0.646210 00	0.993790 02
1.9940	0.545080-01	0.295200 02	2.0016	0.665880 00	0.972670 02
1.9945	0.709160-01	0.362450 02	2.0018	0.685100 00	0.949280 02
1.9950	0.908770-01	0.437140 02	2.0020	0.703830 00	0.923820 02
1.9952	0.999360-01	0.468820 02	2.0022	0.722040 00	0.896470 02
1.9954	0.109640-00	0.501350 02	2.0024	0.739680 00	0.867450 02
1.9956	0.119900-00	0.534610 02	2.0026	0.756730 00	0.836980 02
1.9958	0.131020-00	0.568450 02	2.0028	0.773150 00	0.805270 02
1.9960	0.142740-00	0.602710 02	2.0030	0.788930 00	0.772550 02
1.9962	0.155130-00	0.637720 02	2.0032	0.804050 00	0.739050 02
1.9964	0.168220-00	0.671770 02	2.0034	0.818490 00	0.704980 02
1.9966	0.182000-00	0.706180 02	2.0036	0.832240 00	0.670560 02
1.9968	0.196470-00	0.746230 02	2.0038	0.845310 00	0.636010 02
1.9970	0.211610-00	0.773710 02	2.0040	0.857690 00	0.601510 02
1.9972	0.227410-00	0.806390 02	2.0042	0.869370 00	0.567260 02
1.9974	0.243860-00	0.838060 02	2.0044	0.880380 00	0.533440 02
1.9976	0.260930-00	0.868490 02	2.0046	0.890710 00	0.500200 02
1.9978	0.278590-00	0.897460 02	2.0048	0.900390 00	0.467700 02
1.9980	0.296810-00	0.924740 02	2.0050	0.909430 00	0.436050 02
1.9982	0.315570-00	0.950140 02	2.0052	0.917840 00	0.405390 02
1.9984	0.334800-00	0.973450 02	2.0055	0.929340 00	0.361460 02
1.9986	0.354490-00	0.994480 02	2.0060	0.945700 00	0.294320 02
1.9988	0.374570-00	0.101310 03	2.0065	0.958910 00	0.235410 02
1.9990	0.394990-00	0.102910 03	2.0070	0.969380 00	0.184960 02
1.9992	0.415710-00	0.104230 03	2.0075	0.977540 00	0.142750 02
1.9994	0.436670-00	0.105280 03	2.0080	0.983780 00	0.108220 02
1.9996	0.457800-00	0.106020 03	2.0085	0.984800 00	0.805910 01
1.9998	0.479060-00	0.106470 03	2.0090	0.991940 00	0.589540 01
2.0000	0.500370 00	0.106620 03	2.0095	0.994460 00	0.423630 01

TABLE FOR THE EVALUATION OF THE FAXEN APPROXIMATION TO THE SOLUTION OF THE LAMM EQUATION

PAGE 8

$$\text{ETA} = 0.0000008$$

$\text{Y}$	$\text{PSI}(\text{Y}, \text{ETA})$	$\text{DPSI}(\text{Y}, \text{ETA})/\text{DY}$	$\text{Y}$	$\text{PSI}(\text{Y}, \text{ETA})$	$\text{DPSI}(\text{Y}, \text{ETA})/\text{DY}$
1.9895	0.434520-02	0.318940 01	2.0002	0.520340 00	0.996060 02
1.9900	0.622720-02	C.439300 01	2.0004	0.540220 00	0.992280 02
1.9905	0.879820-02	0.595710 01	2.0006	0.560010 00	0.986050 02
1.9910	0.122560-01	0.795280 01	2.0008	0.579650 00	0.977410 02
1.9915	0.168350-01	0.104520 02	2.0010	0.599090 00	0.966430 02
1.9920	0.228040-01	C.137250 02	2.0012	0.618290 00	0.953180 02
1.9925	0.304650-01	0.172290 02	2.0014	0.637210 00	0.937770 02
1.9930	0.401450-01	C.216070 02	2.0016	0.655790 00	0.920310 02
1.9935	0.521880-01	C.266780 02	2.0018	0.674000 00	0.900910 02
1.9940	0.669370-01	C.324280 02	2.0020	0.691810 00	0.879720 02
1.9945	0.847210-01	0.388060 02	2.0022	0.726080 00	0.832560 02
1.9950	0.105830-00	C.457190 02	2.0024	0.742480 00	0.806910 02
1.9952	0.115260-00	0.486050 02	2.0026	0.758350 00	0.780090 02
1.9954	0.125280-00	0.515430 02	2.0028	0.773670 00	0.752280 02
1.9956	0.135880-00	C.545230 02	2.0030	0.788430 00	0.723650 02
1.9958	0.147090-00	C.575310 02	2.0032	0.802610 00	0.694370 02
1.9960	0.158900-00	C.605530 02	2.0034	0.816210 00	0.664610 02
			2.0036	0.829200 00	0.634540 02
			2.0038	0.841590 00	0.604320 02
1.9962	0.171310-00	0.635750 02	2.0042	0.853370 00	0.574100 02
1.9964	0.184330-00	C.665810 02	2.0044	0.864550 00	0.544030 02
1.9966	0.197940-00	0.695550 02	2.0046	0.875130 00	0.514250 02
1.9968	0.212150-00	C.724810 02	2.0048	0.885120 00	0.486860 02
1.9970	0.226930-00	0.753410 02	2.0050	0.894530 00	0.456050 02
1.9972	0.242280-00	0.781180 02	2.0052	0.903370 00	0.427860 02
1.9974	0.258170-00	0.807950 02	2.0055	0.915590 00	0.387000 02
1.9976	0.274590-00	0.833560 02	2.0056	0.933320 00	0.333100 02
1.9978	0.291500-00	0.857830 02	2.0058	0.948030 00	0.265910 02
1.9980	0.308890-00	C.880600 02	2.0070	0.960030 00	0.215320 02
1.9982	0.326720-00	0.901720 02	2.0075	0.969670 00	0.171640 02
1.9984	0.344950-00	C.921040 02	2.0080	0.977300 00	0.134710 02
1.9986	0.363540-00	C.938430 02	2.0085	0.983250 00	0.104080 02
1.9988	0.382470-00	0.953750 02	2.0090	0.987810 00	0.791700 01
1.9990	0.401680-00	C.966910 02	2.0095	0.991250 00	0.592890 01
1.9992	0.421130-00	0.977800 02	2.0100	0.993810 00	0.437110 01
1.9994	0.440780-00	C.986340 02	2.0105	0.995680 00	0.317270 01
1.9996	0.460570-00	C.992480 02			
1.9998	0.480460-00	C.996160 02			
2.0000	0.500400-00	C.997350 02			

TABLE FOR THE EVALUATION OF THE FAXEN APPROXIMATION TO THE SOLUTION OF THE LAMM EQUATION

PAGE 9

$$\text{ETA} = 0.000009$$

$\gamma$	$\text{PSI}(\gamma, \text{ETA})$	$\text{EPSI}(\gamma, \text{ETA})/\delta\gamma$	$\gamma$	$\text{PSI}(\gamma, \text{ETA})$	$\text{EPSI}(\gamma, \text{ETA})/\delta\gamma$
1.9890	0.47757D-02	C.322716D 01		2.0002	0.51922D 00
1.9895	0.66840D-02	0.44095D 01		2.0004	0.53798D 00
1.9900	0.92374D-02	0.58612D 01		2.0006	0.55665D 00
1.9905	0.12607D-01	C.76834D 01		2.0010	0.57520D 00
1.9910	0.16992D-01	0.99332D 01		2.0012	0.61176D 00
1.9915	0.22620D-01	0.12665D 02		2.0014	0.62969D 00
1.9920	0.29745D-01	C.15924D 02		2.0016	0.64735D 00
1.9925	0.38639D-01	0.19747D 02		2.0018	0.66470D 00
1.9930	0.49589D-01	0.24150D 02		2.0020	0.68170D 00
1.9935	0.62884D-01	C.29126D 02		2.0022	0.69833D 00
1.9940	0.78805D-01	C.34644D 02		2.0024	0.71456D 00
1.9945	0.97609D-01	0.40639D 02		2.0026	0.73035D 00
1.9948	0.11036D-00	C.44426D 02		2.0028	0.74570D 00
1.9950	0.11951D-00	0.47014D 02		2.0030	0.76058D 00
1.9952	0.12917D-00	C.49642D 02		2.0032	0.77497D 00
1.9954	0.13937D-00	C.52300D 02		2.0034	0.78885D 00
1.9956	0.15009D-00	C.54979D 02		2.0036	0.80222D 00
1.9958	0.16136D-00	C.57667D 02		2.0038	0.81507D 00
1.9960	0.17316D-00	C.60352D 02		2.0040	0.82738D 00
1.9962	0.18550D-00	0.63021D 02		2.0042	0.83916D 00
1.9964	0.19837D-00	0.65663D 02		2.0044	0.85040D 00
1.9966	0.21176D-00	C.68263D 02		2.0046	0.86110D 00
1.9968	0.22567D-00	C.70809D 02		2.0048	0.87127D 00
1.9970	0.24008D-00	0.73287D 02		2.0050	0.88091D 00
1.9972	0.25498D-00	C.75683D 02		2.0052	0.89003D 00
1.9974	0.27035D-00	0.77984D 02		2.0054	0.89864D 00
1.9976	0.28616D-00	C.80176D 02		2.0057	0.91062D 00
1.9978	0.30241D-00	0.82248D 02		2.0060	0.92151D 00
1.9980	0.31905D-00	0.84185D 02		2.0063	0.93738D 00
1.9982	0.33607D-00	C.85977D 02		2.0070	0.95063D 00
1.9984	0.35344D-00	C.87612D 02		2.0075	0.96154D 00
1.9986	0.37111D-00	0.89086D 02		2.0080	0.97040D 00
1.9988	0.38906D-00	0.90372D 02		2.0085	0.97749D 00
1.9990	0.40724D-00	0.91478D 02		2.0090	0.98310D 00
1.9992	0.42563D-00	C.92393D 02		2.0095	0.98746D 00
1.9994	0.44419D-00	C.93110D 02		2.0100	0.99082D 00
1.9996	0.46286D-00	0.93624D 02		2.0105	0.99336D 00
1.9998	0.48162D-00	C.93932D 02		2.0110	0.99525D 00
2.0000	0.50042D-00	C.94031D 02			0.29032D 00

TABLE FOR THE EVALUATION OF THE FAXEN APPROXIMATION TO THE SOLUTION OF THE LAMM EQUATION

PAGE 10

ETA = 0.0000010

Y	PSI(Y,ETA)	DPSI(Y,ETA)/DY	Y	PSI(Y,ETA)	DPSI(Y,ETA)/DY
1.9885	0.507910-02	C.322791D 01	2.0002	0.511828D 00	0.89112D 02
1.9890	0.69749D-02	C.43436D 01	2.0004	0.53608D 00	0.88841D 02
1.9895	0.44690C-02	C.568822D 01	2.0006	0.55381D 00	0.88394D 02
1.9900	0.12710D-01	C.73408D 01	2.0008	0.57142D 00	0.87773D 02
1.9905	0.168710-01	C.93659D 01	2.0010	0.58890D 00	0.86982D 02
1.9910	0.22145D-01	C.111801D 02	2.0012	0.60621D 00	0.86026D 02
1.9915	0.28747D-01	C.14685D 02	2.0014	0.62330D 00	0.84911D 02
1.9920	0.36909D-01	C.18C47D 02	2.0016	0.64016D 00	0.83642D 02
1.9925	0.46876D-01	C.21902D 02	2.0018	0.65675D 00	0.82228D 02
1.9930	0.58894D-01	C.26251D 02	2.0020	0.67304D 00	0.80677D 02
1.9935	0.73206D-01	C.31073D 02	2.0022	0.68901D 00	0.78996D 02
1.9940	0.90038D-01	C.36323D 02	2.0024	0.70463D 00	0.77196D 02
1.9945	0.10959D-00	C.41933D 02	2.0026	0.71988D 00	0.75286D 02
1.9948	0.12269D-00	C.45433D 02	2.0028	0.73474D 00	0.73277D 02
1.9950	0.13202D-00	C.47808D 02	2.0030	0.74911D 00	0.71179D 02
1.9952	0.14182D-00	C.50207D 02	2.0032	0.76321D 00	0.69003D 02
1.9954	0.15210D-00	C.52620D 02	2.0034	0.77678D 00	0.66760D 02
1.9956	0.16286D-00	C.55039D 02	2.0036	0.78991D 00	0.64460D 02
1.9958	0.17411D-00	C.57455D 02	2.0038	0.80257D 00	0.62116D 02
1.9960	0.19585D-00	C.59856D 02	2.0040	0.81475D 00	0.59737D 02
1.9962	0.19806D-00	C.62223D 02	2.0042	0.82646D 00	0.57334D 02
1.9964	0.21074D-00	C.64576D 02	2.0044	0.83768D 00	0.54919D 02
1.9966	0.22388D-00	C.66687D 02	2.0046	0.84843D 00	0.52499D-02
1.9968	0.23748D-00	C.69113D 02	2.0048	0.85868D 00	0.50086D 02
1.9970	0.25152D-00	C.71286D 02	2.0050	0.86846D 00	0.47689D 02
1.9972	0.265599D-00	C.73380D 02	2.0052	0.87776D 00	0.45316D 02
1.9974	0.28087D-00	C.75384D 02	2.0054	0.88659D 00	0.42974D 02
1.9976	0.29614D-00	C.77289D 02	2.0057	0.89886D 00	0.39539D 02
1.9978	0.31178D-00	C.79083D 02	2.0060	0.91032D 00	0.36214D 02
1.9980	0.32776D-00	C.80175D 02	2.0065	0.92710D 00	0.30972D 02
1.9982	0.34407D-00	C.82230D 02	2.0070	0.94137D 00	0.26159D 02
1.9984	0.36068D-00	C.83709D 02	2.0075	0.95334D 00	0.21820D 02
1.9986	0.37755D-00	C.84570D 02	2.0080	0.96327D 00	0.17975D 02
1.9988	0.39465D-00	C.86078D 02	2.0085	0.97140D 00	0.14623D 02
1.9990	0.41197D-00	C.87125D 02	2.0090	0.97797D 00	0.11748D 02
1.9992	0.42945D-00	C.87808D 02	2.0095	0.98322D 00	0.93216D 01
1.9994	0.44708D-00	C.88420D 02	2.0100	0.98736D 00	0.73043D 01
1.9996	0.46481D-00	C.88859D 02	2.0105	0.99059D 00	0.56524D 01
1.9998	0.48261D-00	C.89121D 02	2.0110	0.99307D 00	0.43198D 01
2.0000	0.50045D-00	C.89206D 02	2.0115	0.99495D 00	0.32604D 01

TABLE FCP THE EVALUATION OF THE FAXEN APPROXIMATION TO THE SOLUTION OF THE LAMM EQUATION

ETA = 0.000020

PAGE 11

$\gamma$	$\psi(\gamma, \eta)$	$\epsilon\psi(\gamma, \eta)/\epsilon\gamma$	$\gamma$	$\psi(\gamma, \eta)$	$\epsilon\psi(\gamma, \eta)/\epsilon\gamma$
1.9825	0.284260-02	C.1137800 01	2.0010	0.563440 00	0.622790 02
1.9850	0.389110-02	C.28C24D 01	2.0020	0.624680 00	0.599720 02
1.9875	0.241492-C1	C.89744D C1	2.0030	0.68293D 00	0.563240 02
1.9900	0.571040-C1	C.181170 02	2.0040	0.736970 00	0.51592D 02
			2.0050	0.785860 00	0.460910 02
1.9910	0.77594C-01	C.22569D C2	2.0060	0.82901D 00	0.40160D 02
1.9920	0.103240-C0	C.284000 C2	2.0070	0.866150 00	0.34128D 02
1.9930	0.13453C-C0	C.342448D 02	2.0080	0.89733D 00	0.28286D 02
1.9940	0.17119D-C0	C.40281D 02	2.0090	0.92286D 00	0.22866D 02
1.9950	0.215065-C0	C.46207D C2	2.0100	0.94326D 00	0.18027D 02
1.9960	0.26436D-00	C.51696D 02	2.0110	0.959140 00	0.13862D 02
1.9970	0.31819C-C0	C.56409D C2	2.0125	0.97604D 00	0.89186D 01
1.9980	0.37651C-00	C.60032D 02	2.0150	0.991180 00	0.37740D 01
1.9990	0.43781D-00	C.623100 02	2.0175	0.997180 00	0.136600 01
2.0000	0.500630 C0	C.63078D 02			

TABLE FOR THE EVALUATION OF THE FAXEN APPROXIMATION TO THE SOLUTION OF THE LAMM EQUATION

PAGE 12

$$\text{ETA} = 0.000039$$

$\psi$	$\psi''(\psi, \text{ETA})$	$\psi'''(\psi, \text{ETA})/\psi'$	$\psi''$	$\psi'''(\psi, \text{ETA})$	$\psi''''(\psi, \text{ETA})/\psi''$
1.9800	0.492940-02	C.184660 C1	2.0010	0.552130 00	0.510630 02
1.9825	0.115950-01	C.403070 C1	2.0020	0.602520 00	0.497900 02
1.9850	0.264230-01	C.7928CD C1	2.0030	0.651450 00	0.477460 02
1.9875	0.535C3C-01	C.14C510 C2	2.0040	0.697890 00	0.450290 02
1.9900	0.9669CD-01	C.224390 C2	2.0050	0.741320 00	0.417650 02
1.9919	0.123030-03	C.262820 C2	2.0060	0.781280 00	0.380970 02
1.9927	0.151300-03	C.202750 C2	2.0070	0.817430 00	0.341170 02
1.9930	0.182590-03	C.342970 C2	2.0080	0.849600 00	0.301540 02
1.9943	0.214860-03	C.382120 C2	2.0090	0.877750 03	0.261640 02
1.9953	0.259930-03	C.418690 C2	2.0100	0.901980 00	0.223320 02
1.9963	0.303470-03	C.451190 C2	2.0110	0.922490 00	0.187380 02
1.9973	0.349970-03	C.478170 C2	2.0125	0.946920 00	0.139630 02
1.9983	0.398870-03	C.498390 C2	2.0150	0.973710 00	0.786880 01
1.9993	0.449410-03	C.510880 C2	2.0175	0.988130 00	0.399560 01
2.0003	0.500770-03	C.515030 C2	2.0200	0.995120 00	0.182820 01

TABLE FCF THE EVALUATION OF THE FAXEN APPROXIMATION TO THE SOLUTION OF THE LAMM EQUATION

PAGE 13

$$\text{ETA} = 0.000040$$

$\gamma$	$\psi(\gamma, \text{ETA})$	$C\psi(\gamma, \text{ETA})/\partial\gamma$	$\gamma$	$\psi(\gamma, \text{ETA})$	$D\psi(\gamma, \text{ETA})/\partial\gamma$
1.9775	0.399799C-02	C.188530 C1	2.0010	0.545400 00	0.44314D 02
1.9800	0.127470 01	C.161970 01	2.0020	0.589340 00	0.43480D 02
1.9825	0.253120-01	C.466C700 C1	2.0030	0.632180 00	0.42132D 02
1.9850	0.314630-01	C.16E500 C2	2.0040	0.673450 00	0.40318D 02
1.9875	0.109800-00	C.209895D C2	2.0050	0.712690 00	0.38103D 02
1.9900	0.13226C-00	C.235340 C2	2.0100	0.868700 00	0.23815D 02
1.9910	C.15769C-00	C.26945D C2	2.0110	0.89104D 00	0.20880D 02
1.9920	C.184915C-00	C.29948D 02	2.0125	0.91921D 00	0.16745D 02
1.9930	C.2175HC-00	C.32894D 02	2.0150	0.95345D 00	0.10890D 02
1.9940	C.25188D-00	C.35670D C2	2.0175	0.97493D 00	0.65494D 01
1.9950	C.29F84C-00	C.38199D C2	2.0200	0.98740D 00	0.36431D 01
1.9960	C.32817C-00	C.40292D 02	2.0225	0.99410D 00	0.18741D 01
1.9970	C.36550D-00	C.42195D C2			
1.9980	C.41240C-00	C.43523D C2			
1.9990	C.45638C-00	C.44336D 02			
2.0000	C.50C89D 00	C.44603D C2			

TABLE FOR THE EVALUATION OF THE FAXEN APPROXIMATION TO THE SOLUTION OF THE LAMM EQUATION

PAGE 14

$$\text{ETA} = 0.000050$$

$\gamma$	$\psi(\gamma, \text{ETA})$	$d\psi(\gamma, \text{ETA})/d\gamma$	$\gamma$	$\psi(\gamma, \text{ETA})$	$d\psi(\gamma, \text{ETA})/d\gamma$
1.9750	0.625390-02	C.176390 .01	2.0010	0.540820 .00	0.396850 .02
1.9775	0.123545-01	C.215190 .01	2.0020	0.580240 .00	0.390840 .02
1.9800	0.228H65-01	C.542620 .01	2.0030	0.618860 .00	0.381100 .02
1.9825	2.40276C-01	C.866560 .01	2.0040	0.656340 .00	0.367900 .02
1.9850	0.67133C-01	C.13C90D .02	2.0060	0.726580 .00	0.332720 .02
1.9865	0.88911D-01	C.16093D .02	2.0070	0.758882D .00	0.311710 .02
1.9880	0.11556C-06	C.19477D .02	2.0080	0.788870 .00	0.289110 .02
1.9895	0.13621C-06	C.21845D .02	2.0090	0.816600 .00	0.265490 .02
1.9900	0.15926D-06	C.24258D .02	2.0100	0.841950 .00	0.241370 .02
1.9910	0.18473C-06	C.26668D .02	2.0110	0.86488D .00	0.217250 .02
1.9920	0.21258D-06	C.29027D .02	2.0120	0.88541D .00	0.193600 .02
1.9930	0.24275D-06	C.31280D .02	2.0130	0.90363D .03	0.170810 .02
1.9940	0.27509C-06	C.33372D .02	2.0140	0.91962D .00	0.149200 .02
1.9950	0.30942D-06	C.35250D .02	2.0150	0.93351D .00	0.129030 .02
1.9960	0.34550D-06	C.26864D .02	2.0175	0.96016D .00	0.859020 .01
1.9970	0.38334D-06	C.38167D .02	2.0200	0.97738D .00	0.53723D .01
1.9980	0.42172D-06	C.39123D .02	2.0225	0.98785D .00	0.31562D .01
1.9990	0.46117D-06	C.39705D .02	2.0250	0.99383D .00	0.174200 .01
2.0000	0.50100D .00	C.39894D .02			

TABLE FOR THE EVALUATION OF THE FAXEN APPROXIMATION TO THE SOLUTION OF THE LAMM EQUATION

PAGE 15

$\gamma$	$\psi(\gamma, \eta)$	$D\psi(\gamma, \eta)/D\gamma$	$\psi_1(\gamma, \eta)$	$D\psi_1(\gamma, \eta)/D\gamma$
				$\eta = 0.0000060$
1.9725	0.607710-02	C.156980 C1	2.0010 2.0020 2.0030 2.0040 2.0050	0.537460 00 0.573510 00 0.608960 00 0.643520 00 0.676940 00
1.9750	0.111321C-01	C.27106D 01	2.0060	0.709000 00
1.9775	0.201230-01	C.444300 01	2.0070	0.73948D 00
1.9800	0.341520-01	C.691310 C1	2.0080	0.76823D 00
1.9825	0.553810-01	C.102100 C2	2.0090	0.79512D 00
1.9850	0.858820-01	C.14215D 02	2.0100	0.82006D 00
1.9860	0.101110-00	C.16150D 02	2.0110	0.843010 00
1.9870	0.119210-00	C.18068D 02	2.0120	0.86394D 00
1.9880	0.137260-00	C.200470 C2	2.0130	0.88287D 00
1.9890	0.156710-00	C.22257D 02	2.0140	0.89986D 00
1.9900	0.181390-00	C.24C68D 02	2.0150	0.91497D 00
1.9910	0.206440-00	C.26C45D C2	2.0160	0.920310 00
1.9920	0.233440-00	C.27549D 02	2.0175	0.94523D 00
1.9930	0.262300-00	C.29745D 02	2.0200	0.96626D 00
1.9940	0.292840-00	C.31392D 02	2.0225	0.98014D 00
1.9950	0.325030-00	C.32856D 02	2.0250	0.98884D 00
1.9960	0.358520-00	C.34103D C2		
1.9970	0.393150-00	C.35104D 02		
1.9980	0.428640-00	C.35834D 02		
1.9990	0.464120-00	C.36276D 02		
2.0000	0.50109C 00	C.36418D C2		
			2.0275	0.994020 00
				0.154840 01

TABLE FOR THE EVALUATION OF THE FAXEN APPROXIMATION TO THE SOLUTION OF THE LAMM EQUATION

PAGE 16

$$\text{ETA} = \text{C.000070}$$

$\gamma$	$\psi(\gamma, \text{ETA})$	$\psi(\gamma, \text{ETA})/\gamma$	$\gamma$	$\psi(\gamma, \text{ETA})$	$\psi(\gamma, \text{ETA})/\gamma$	$\gamma$	$\psi(\gamma, \text{ETA})$	$\psi(\gamma, \text{ETA})/\gamma$
1.9700	0.56629C-02	C.13651D 01	2.0010	0.53485D 00	0.33588D 02	2.0020	0.56828D 00	0.33221D 02
1.9725	0.1013PC-01	C.22796D 01	2.0030	0.60122D 00	0.32625D 02	2.0040	0.63345D 00	0.31812D 02
1.9750	0.17433C-01	C.36405D C1	2.0060	0.67499D 00	0.29604D 02	2.0070	0.72393D 00	0.28254D 02
1.9775	0.28RC7C-01	C.556C0D 61	2.0080	0.75146D 00	0.26774D 02	2.0090	0.77744D 00	0.25190D 02
1.9800	0.45769D-01	C.81209D C1	2.0100	0.80181D 00	0.23532D 02			
1.9825	0.69965U-01	C.11243D C2						
1.9850	0.10298C-00	C.15153D C2						
1.9860	0.111895C-00	C.16802U C2	2.C110	0.82449D 00	0.21826D 02			
1.9870	0.13660C-00	C.18498U 02	2.C120	0.84546D 00	0.20100D 02			
1.9880	0.15596D-00	C.2C221D 02	2.C130	0.86469D 00	0.18378D 02			
1.9890	0.177C4C-00	C.21946U 02	2.C140	0.88222D 00	0.16685D 02			
1.9900	0.19784D-00	C.23650U 02	2.C150	0.89808D 00	0.15039D 02			
1.9910	0.22422C-00	C.25304D 02	2.0160	0.91232D 00	0.13460D 02			
1.9920	0.25042D-00	C.26881D 62	2.0175	0.93083D 00	0.11244D 02			
1.9930	0.27505D-00	C.28253D 02	2.0220	0.95480D 00	0.80400D 01			
1.9940	0.30709D-00	C.29693D 02	2.0225	0.97158D 00	0.54978D 01			
1.9950	0.33738D-00	C.30875D 02	2.0250	0.98282D 00	0.35953D 01			
1.9960	0.36277C-00	C.31876D C2						
1.9970	0.40107C-00	C.32674D 02	2.0275	0.99020D 00	0.22485D 01			
1.9980	0.43405C-00	C.33255D 02	2.0300	0.99443D 00	0.13448D 01			
1.9990	0.46750C-00	C.33605D 02						
2.0000	0.50118D 00	C.33716D C2						

TABLE FOR THE EVALUATION OF THE FAXEN APPROXIMATION TO THE SOLUTION OF THE LAMM EQUATION

PAGE 17

Y	PSI(Y,ETA)	DPSI(Y,ETA)/DY	Y	PSI(Y,ETA)	DPSI(Y,ETA)/DY
1.99675	0.51415D-02	C.111719D 01	2.0010	0.53276D 00	0.31432D 02
1.99700	0.89296D-02	C.19084D 01	2.0020	0.56406D 00	0.31131D 02
1.99725	0.14970D-01	C.29087D 01	2.0030	0.59496D 00	0.30641D 02
1.99750	0.24234D-01	0.45013D 01	2.0040	0.62528D 00	0.29971D 02
1.99775	0.37899D-01	C.65198D 01	2.0060	0.68350D 00	0.28141D 02
1.99800	0.57287D-01	C.90815D 01	2.0070	0.71108D 00	0.27014D 02
1.99825	0.83744D-01	0.12165D 02	2.0080	0.73749D 00	0.25777D 02
1.99840	0.10352D-00	C.14228D 02	2.0090	0.76259D 00	0.24431D 02
1.99850	0.11847D-00	C.15672D 02	2.0100	0.78632D 00	0.23017D 02
1.99860	0.13488D-00	C.17154D 02	2.0110	0.80861D 00	0.21549D 02
1.99870	0.15278D-00	C.18659D 02	2.0120	0.82941D 00	0.20050D 02
1.99880	0.17220D-00	C.20171D 02	2.0130	0.84870D 00	0.18539D 02
1.99890	0.19312D-00	C.21668D 02	2.0140	0.86549D 00	0.17034D 02
1.99900	0.21552D-00	C.23132D 02	2.0150	0.88278D 00	0.15555D 02
1.99910	0.23937D-00	C.24541D 02	2.0160	0.89761D 00	0.14115D 02
1.99920	0.26458D-00	0.25873D 02	2.0170	0.91103D 00	0.12729D 02
1.99930	0.29108D-00	C.27108D 02	2.0185	0.92664D 00	0.10773D 02
1.99940	0.31876D-00	C.28225D 02	2.0200	0.94344D 00	0.89912D 01
1.99950	0.34749D-00	0.29205D 02	2.0225	0.96262D 00	0.64469D 01
1.99960	0.37712D-00	C.30031D 02	2.0250	0.97612D 00	0.44455D 01
1.99970	0.40749D-00	C.30687D 02	2.0275	0.98527D 00	0.29679D 01
1.99980	0.43843D-00	0.31162D 02	2.0300	0.99122D 00	0.18800D 01
1.99990	0.46975D-00	C.31448D 02	2.0325	0.99435D 00	0.11530D 01
2.00000	0.50126D-00	C.31539D 02			

TABLE FOR THE EVALUATION OF THE FAXEN APPROXIMATION TO THE EQUATION OF THE LAHM EQUATION

PAGE 14

$$\text{ETA} = 0.000090$$

$\gamma$	$\text{PSI}(\gamma, \text{ETA})$	$\text{CPSI}(\gamma, \text{ETA})/\gamma$	$\gamma$	$\text{PSI}(\gamma, \text{ETA})$	$\text{CPSI}(\gamma, \text{ETA})/\gamma$
1.9650	0.458880D-02	C.59E37D 00	2.0010	0.53104D 00	0.29645D 02
1.9675	0.77811D-02	C.15944D C1	2.0020	0.56057D 79	0.29392D 02
1.9700	0.12785D-01	C.24593D C1	2.0030	0.58977D 00	0.28979D 02
1.9725	0.20361D-C1	C.26640D C1	2.0040	0.61848D 39	0.28414D 02
1.9750	0.31442D-01	C.52725D C1	2.0050	0.64655D 00	0.27705D 02
1.9775	0.47097D-01	C.73282D C1	2.0060	0.67185D 30	0.26865D 02
1.9800	0.68462D-01	C.58278D 01	2.0100	0.70024D 00	C.25906D 02
1.9810	0.78856D-01	C.10961D C2	2.0110	0.73431D 00	0.19189D 02
1.9820	0.96404D-01	C.12144D C2	2.0120	0.81535D 00	0.19872D 02
1.9830	0.10316D-00	C.13281D 02	2.0130	0.83455D 00	0.18535D 02
1.9840	0.111718D-00	C.14662D 02	2.0140	0.85241D 00	0.17191D -02
1.9850	0.13250D-00	C.15576D C2	2.0150	0.86394D 00	0.15857D 02
1.9860	0.14314D-00	C.17212D C2	2.0160	0.88413D 00	0.14545D 02
1.9870	0.16712D-00	C.18655D C2	2.0170	0.89104D 00	0.13267D 02
1.9880	0.18645D-00	C.19592D 12	2.0180	0.91068D 00	0.12035D 02
1.9890	0.20710D-00	C.21306D C2	2.0190	0.92213D 00	0.10857D 02
1.9900	0.22905D-00	C.22580D C2	2.0200	0.93242D 00	0.97490D 01
1.9910	0.25224D-00	C.23797D C2	2.0210	0.94163D 30	0.86993D 01
1.9920	0.27662D-00	C.24942D C2	2.0220	0.95256D 00	0.72462D 01
1.9930	0.30239D-00	C.25597D C2	2.0250	0.96403D 00	0.52070D 01
1.9940	0.32857D-00	C.26646D C2	2.0275	0.97977D 00	0.36140D 01
1.9950	0.35594D-00	C.27775D C2	2.0300	0.98743D 00	0.24227D 01
1.9960	0.38408D-00	C.28471D C2	2.0325	0.99236D 00	0.15667D 01
1.9970	0.41284D-00	C.29623D C2	2.0350	0.99550D 00	0.98105D 00
1.9980	0.44207D-00	C.29421D 02			
1.9990	0.47163C-00	C.29660D 02			
2.0000	0.50134D 00	C.29735D 02			

TABLE FOR THE EVALUATION OF THE FAXEN APPROXIMATIONS TO THE SOLUTION OF THE LAMM EQUATION

PAGE 10

ETA = 0.800100

Y	PSI(Y,ETA)	DPSI(Y,ETA)/DY	Y	PSI(Y,ETA)	DPSI(Y,ETA)/DY
1.9625	0.40475D-02	C.84660D 00	2.0010	0.524959D 00	0.281131D 02
1.9650	0.67310D-02	C.13210D C1	2.0020	0.55763D 00	0.27314D 02
1.9675	0.108H0D-01	C.20283D C1	2.0030	0.58538D 00	0.27551D 02
1.9700	0.17C98D-01	C.25957D C1	2.0040	0.61270D 00	0.27976D 02
1.9725	0.26130C-01	C.42665D C1	2.0050	0.63949D 00	0.28467D 02
1.9750	0.36848D-01	C.59502D C1	2.0060	0.66646D 00	0.25742D 02
1.9775	0.56207D-01	C.80C1BD C1	2.0070	0.69044D 00	0.24913D 02
1.9800	0.79172D-01	C.10450D 02	2.0080	0.71539D 00	0.23990D 02
			2.0090	0.73479D 00	0.22986D 02
			2.0100	0.76134C 00	0.21914D 02
1.9810	0.90131C-01	C.11495D C2	2.0110	0.78270C 00	0.20788D 02
1.9820	0.10218D-00	C.12606D C2	2.0120	0.60291D 00	0.19622D 02
1.9830	0.11536C-00	C.13755D C2	2.0130	0.42193D 00	0.18422D 02
1.9840	0.12970D-00	C.14934D 02	2.0140	0.33276D 00	0.17221D 02
1.9850	0.14523C-00	C.16134D C2	2.0150	0.45638D 00	0.16013D 02
1.9860	0.16197C-00	C.17242D C2	2.0160	0.57177D 00	0.14815D 02
1.9870	0.17991C-00	C.18544D C2	2.0170	0.48670D 00	0.13639D 02
1.9880	0.199C6C-00	C.19740D C2	2.0180	0.59970D 00	0.12430D 02
1.9890	0.21938D-00	C.20503D 02	2.0190	0.61101D 00	0.11360D 02
1.9900	0.240H5C-00	C.222C24D 02	2.0200	0.72187D 00	0.10326D 02
1.9910	0.26341C-00	C.23C90D C2	2.0210	0.93168D 00	0.93177D 01
1.9920	0.28711C-00	C.24C86D C2	2.0225	0.94457D 00	0.79123D 01
1.9930	0.31156D-00	C.25C00D C2	2.0250	0.46174D 00	0.53763D 01
1.9940	0.33698C-00	C.25E20D C2	2.0275	0.47230D 00	0.42299D 01
1.9950	0.36316D-00	C.26533D C2	2.0300	0.98320D 00	0.29512D 01
1.9960	0.39G01C-00	C.27130D C2	2.0325	0.98732C 00	0.14956D 01
1.9970	0.41738D-00	C.27602D C2	2.0350	0.77340D 00	0.12080D 01
1.9980	0.44517C-00	C.27942D C2	2.0375	0.97664C 00	0.83068D 00
1.9990	0.47322C-00	C.28146D C2			
2.0000	0.50141C 00	C.28209D C2			

TABLE FOR THE EVALUATION OF THE FAXEN APPROXIMATION TO THE SOLUTION OF THE LAMM EQUATION

PAGE 20

$\eta$	$\psi(\eta, \eta_1)$	$D\psi(\eta, \eta_1)/D\eta$	$\eta$	$\psi(\eta, \eta_1)$	$D\psi(\eta, \eta_1)/D\eta$
1.9500	0.62990C-02	C.88754D 00	2.0020	0.54181C 00	0.19837D 02
1.9550	0.12386C-01	C.16051D C1	2.0040	0.58121D 00	0.19532D 02
1.9600	0.23024C-01	C.27268D 01	2.0060	0.61981D 00	0.19040D 02
1.9650	0.40496D-01	C.43519D C1	2.0080	0.65726D 00	0.18376D 02
1.9700	0.67462C-01	C.65248D 01	2.0120	0.72741C 00	0.16611D 02
1.9730	0.89318C-01	C.80735D 01	2.0140	0.75959D 00	0.15580D 02
1.9760	0.11605D-00	C.97677D C1	2.0160	0.78958D 00	0.14426D 02
1.9780	0.13676C-00	C.10953D C2	2.0180	0.81726D 00	0.13244D 02
1.9800	0.15987D-00	C.12159D C2	2.0200	0.84255D 00	0.12038D 02
1.9820	0.18540D-00	C.13326D C2	2.0220	0.86541D 00	0.10833D 02
1.9840	0.21231D-00	C.14542D C2	2.0240	0.88589D 00	0.96512D 01
1.9860	0.24353D-00	C.15667D 02	2.0260	0.90405D 00	0.85130D 01
1.9880	0.27593D-00	C.16711D 02	2.0280	0.91498D 00	0.74342D 01
1.9900	0.31030D-00	C.17647D C2	2.0300	0.93383D 00	0.64276D 01
1.9920	0.34643C-00	C.18450D C2	2.0350	0.96037C 00	0.42765D 01
1.9940	0.38400D-00	C.19C97D C2	2.0400	0.97752D 00	0.26729D 01
1.9960	0.42270D-00	C.19571D C2	2.0450	0.98793D 00	0.15694D 01
1.9980	0.46216D-00	C.19857D 02	2.0500	0.99388D 00	0.86563D 00
2.0000	0.50199D 00	C.19946D 02			

TABLE FOR THE EVALUATION OF THE FAXEN APPROXIMATION TO THE SOLUTION OF THE LAMM EQUATION

PAGE 21

$$\text{ETA} = C.000300$$

$\gamma$	$\text{PSI}(\gamma/\text{ETA})$	$D\text{PSI}((\gamma/\text{ETA})/D\gamma)$	$\gamma$	$\text{PSI}(\gamma/\text{ETA})$	$D\text{PSI}((\gamma/\text{ETA})/D\gamma)$
1.9750	0.405580-02	C.48967D-0C	2.0020	0.53497D 00	0.16224D 02
1.9400	0.72774D-02	C.82326D 00	2.0040	0.56727D 00	0.16054D 02
1.9450	0.12573D-01	C.13276D C1	2.0060	0.59912D 00	0.15781D 02
1.9500	0.20923D-01	C.20537D 01	2.0120	0.69005D 00	0.14401D 02
1.9550	0.33556D-01	C.30470D C1	2.0140	0.71825D 00	0.13784D 02
1.9600	0.51889D-01	C.43365D C1	2.0160	0.74515D 00	0.13105D 02
1.9650	0.77413D-01	C.59197D 01	2.0180	0.77064D 00	0.12377D 02
1.9700	0.11150D-00	C.77512D C1	2.0200	0.79463D 00	0.11611D 02
1.9720	0.12778D-00	C.85336D C1	2.0220	0.81707D 00	0.10821D 02
1.9740	0.14565D-00	C.9325D 01	2.0240	0.93790D 00	0.10017D 02
1.9760	0.16512C-00	C.10138D C2	2.0260	0.85713D 00	0.92120D 01
1.9780	0.18620D-00	C.10941D C2	2.0280	0.87476D 00	0.84150D 01
1.9800	0.20887D-00	C.11728D C2	2.0300	0.89081D 00	0.76358D 01
1.9820	0.23309C-00	C.12489D C2	2.0320	0.90532D 00	0.68828D 01
1.9840	0.25880D-00	C.13210D C2	2.0350	0.92435D 00	0.58170D 01
1.9860	0.28590C-00	C.13880D 02	2.0400	0.94940D 00	0.42506D 01
1.9880	0.31428D-00	C.14488D 02	2.0450	0.96735D 00	0.29792D 01
1.9900	0.34380C-00	C.15021D 02	2.0500	0.97969D 00	0.20029D 01
1.9920	0.37431D-00	C.15471D C2	2.0550	0.98782D 00	0.12916D 01
1.9940	0.40562D-00	C.15828D C2	2.0600	0.99277D 00	0.79893D 00
1.9960	0.43756D-00	C.16086D C2	2.0650	0.99609D 00	0.47401D-00
1.9980	0.46990D-00	C.16240D C2			
2.0000	0.50244D 00	C.16286D C2			

TABLE FOR THE EVALUATION OF THE FAXEN APPROXIMATION TO THE SOLUTION OF THE LAMM EQUATION

PAGE 22

ETA = 0.000400

Y	PSI(Y,ETA)	DPSI(Y,ETA)/DY	Y	PSI(Y,ETA)	DPSI(Y,ETA)/DY
1.9250	0.40913D-02	C.42738D-00	2.0020	0.53100D-00	0.14061D-02
1.9300	0.67997D-02	C.67114D-00	2.0040	0.55902D-00	0.13949D-02
1.9350	0.10984D-01	C.1C226D-01	2.0060	0.58675D-00	0.13769D-02
1.9400	0.17252D-01	C.15C93D-01	2.0080	0.61405D-00	0.13524D-02
1.9450	0.26350D-01	C.21592D-01	2.0100	0.64000D-00	0.13216D-02
1.9500	0.39153D-01	C.29539D-01	2.0120	0.66688D-00	0.12851D-02
1.9550	0.56615D-01	0.40236D-01	2.0140	0.69217D-00	0.12434D-02
1.9600	0.79703D-01	C.52411D-01	2.0160	0.71659D-00	0.11971D-02
1.9630	0.96628D-01	C.60505D-01	2.0180	0.74093D-00	0.11467D-02
1.9660	0.11605D-00	C.69C68D-01	2.0200	0.76430D-00	0.10929D-02
1.9680	0.13046D-00	C.74570D-01	2.0220	0.78767D-00	0.10365D-02
1.9700	0.14605D-00	C.8C970D-01	2.0240	0.80388D-00	0.97813D-01
1.9720	0.16285D-00	C.87C14D-01	2.0260	0.82235D-00	0.91841D-01
1.9740	0.18085D-00	C.93C43D-01	2.0280	0.84016D-00	0.85804D-01
1.9760	0.20006D-00	C.58994D-01	2.0300	0.85717D-00	0.79764D-01
1.9780	0.22044D-00	C.10488D-02	2.0320	0.87252D-00	0.737H0D-01
1.9800	0.24196D-00	0.11C39D-02	2.0340	0.88669D-00	0.67940D-01
			2.0360	0.89969D-00	0.62134D-01
			2.0380	0.91157D-00	0.56662D-01
			2.0400	0.92237D-00	0.51373D-01
1.9820	0.26458D-00	C.11570D-02	2.0450	0.94438D-00	0.39341D-01
1.9840	0.28822D-00	C.12067D-02	2.0500	0.96273D-00	0.29200D-01
1.9860	0.31282D-00	C.12522D-02	2.0550	0.97450D-00	0.21037D-01
1.9880	0.33828D-00	C.12922D-02	2.0600	0.98334D-00	0.14647D-01
1.9900	0.36450D-00	C.13282D-02	2.0650	0.98942D-00	0.98987D-00
1.9920	0.39137D-00	C.13578D-02	2.0700	0.99346D-00	0.64839D-00
1.9940	0.41877D-00	C.13811D-02	2.0750	0.99568D-00	0.4164D-00
1.9960	0.44657D-00	C.13977D-02			
1.9980	0.47463D-00	C.14C76D-02			
2.0000	0.50282D-00	C.14104D-02			

TABLE FOR THE EVALUATION OF THE FAXEN APPROXIMATION TO THE SOLUTION OF THE LAMM EQUATION

PAGE 23

ETA = 0.000500

$\gamma$	$\Psi_{II}(\gamma, \eta)$	$C\Psi_{II}(\gamma, \eta)/\eta$	$\gamma$	$\Psi_{II}(\gamma, \eta)$	$C\Psi_{II}(\gamma, \eta)/\eta$	$\gamma$	$\Psi_{II}(\gamma, \eta)$	$C\Psi_{II}(\gamma, \eta)/\eta$
1.9200	0.58386C-02	C.52479D .00		2.0020	0.52836D .00	0.12583D .02		
1.9250	0.90479D-02	C.77217D .00		2.0040	0.55345D .00	0.12501D .02		
1.9300	0.13708D-01	C.11C81D .01		2.0060	0.57833D .00	0.12371D .02		
1.9350	0.20307D-01	C.15509D .01		2.0080	0.60290D .00	0.12193D .02		
1.9400	0.29423D-01	C.21172D .01		2.0100	0.62707D .00	0.11969D .02		
1.9450	0.41705C-01	C.28187D .01		2.0120	0.65075D .00	0.11703D .02		
1.9500	0.57844D-01	C.36661D .01		2.0140	0.67336D .00	0.11397D .02		
1.9550	0.78530D-01	C.46354D .01		2.0160	0.69632D .00	0.11055D .02		
1.9580	0.93390D-01	C.52775D .01		2.0180	0.71306D .00	0.10680D .02		
1.9600	0.10439D-01	C.57256D .01		2.0200	0.73932D .00	0.10277D .02		
1.9620	0.11630D-00	C.61869D .01		2.0220	0.75315D .00	0.98491D .01		
1.9640	0.12915D-00	C.66587D .01		2.0240	0.77940D .00	0.94016D .01		
1.9660	0.14294D-00	C.71379D .01		2.0260	0.79674D .00	0.70176D .01		
1.9680	0.15770C-00	C.76210D .01		2.0280	0.81415D .00	0.89387D .01		
1.9700	0.17342C-00	C.81043D .01		2.0300	0.83056D .00	0.84646D .01		
1.9720	0.19011D-0C	C.65839D .01		2.0320	0.84608D .00	0.75001D .01		
1.9740	0.20776D-0C	C.5C556D .01		2.0340	0.86060D .00	0.70176D .01		
1.9760	0.22633D-00	C.95151D .01		2.0360	0.87416D .00	0.65339D .01		
1.9780	0.24580D-00	C.99580D .01		2.0380	0.88676D .00	0.60705D .01		
1.9800	0.26615D-00	C.103800 .02		2.0400	0.89844D .00	0.56122D .01		
1.9820	0.28731D-00	C.10776D .02		2.0420	0.90922D .00	0.51678D .01		
1.9840	0.30923D-00	C.11144D .02		2.0440	0.91913D .00	0.47397D .01		
1.9860	0.33186D-00	C.11477D .02		2.0470	0.93242D .00	0.41319D .01		
1.9880	0.35512D-00	C.11774D .02		2.0500	0.94396D .00	0.35698D .01		
1.9900	0.37893D-00	C.12029D .02		2.0550	0.95969D .00	0.27423D .01		
1.9920	0.4C320C-00	C.12242D .02		2.0600	0.97162D .00	0.20546C .01		
1.9940	0.42786D-00	C.12408D .02		2.0650	0.98346D .00	0.15013D .01		
1.9960	0.45281D-00	C.12526D .02		2.0700	0.98684D .00	0.10700D .01		
1.9980	0.47794D-00	C.12596D .02		2.0750	0.99133D .00	0.74375D .00		
2.0000	0.50315D .00	C.12614D .02		2.0800	0.99442D .00	0.50421D .00		

TABLE FOR THE EVALUATION OF THE FAXEN APPROXIMATION TO THE SOLUTION OF THE LAMM EQUATION

PAGE 24

$\eta$	$\Psi(\eta, \eta_\text{A})$	$D\Psi(\eta, \eta_\text{A})/d\eta$	$\eta$	$\Psi(\eta, \eta_\text{A})$	$D\Psi(\eta, \eta_\text{A})/d\eta$
$\eta_\text{A} = 0.000600$					
1.9100	0.48098D-02	0.40320D-00	2.0020	0.52647D-00	0.11490D-02
1.9150	0.72448D-02	0.57982D-00	2.0040	0.54939D-00	0.11427D-02
1.9200	0.10708D-01	0.81661D-00	2.0060	0.57215D-00	0.11327D-02
1.9250	0.15533D-01	0.11264D-01	2.0080	0.59467D-00	0.11190D-02
1.9300	0.22115D-01	0.15217D-01	2.0100	0.61689D-00	0.11018D-02
1.9350	0.30910D-01	0.20133D-01	2.0120	0.63872D-00	0.10812D-02
1.9400	0.42421D-01	0.26088D-01	2.0140	0.66011D-00	0.10575D-02
1.9450	0.57176D-01	0.33108D-01	2.0160	0.68100D-00	0.10309D-02
1.9500	0.75700D-01	0.41151D-01	2.0180	0.70133D-00	0.10116D-02
1.9530	0.88828D-01	0.46420D-01	2.0200	0.72212D-00	0.9963D-01
1.9560	0.10358D-00	0.51972D-01	2.0220	0.75848D-00	0.90043D-01
1.9580	0.11436D-00	0.55805D-01	2.0240	0.77612D-00	0.86326D-01
1.9600	0.12591D-00	0.59721D-01	2.0260	0.79300D-00	0.82487D-01
1.9620	0.13825D-00	0.63699D-01	2.0280	0.80911D-00	0.78556D-01
1.9640	0.15139D-00	0.67717D-01	2.0300	0.82442D-00	0.74563D-01
1.9660	0.16534D-00	0.71748D-01	2.0320	0.83893D-00	0.70538D-01
1.9680	0.18009D-00	0.75766D-01	2.0340	0.85264D-00	0.66509D-01
1.9700	0.19564D-00	0.79743D-01	2.0360	0.86554D-00	0.62501D-01
1.9720	0.21198D-00	0.83649D-01	2.0380	0.87764D-00	0.58539D-01
1.9740	0.22909D-00	0.87459D-01	2.0400	0.88896D-00	0.56645D-01
1.9760	0.24695D-00	0.91130D-01	2.0420	0.89951D-00	0.50841D-01
1.9780	0.26553D-00	0.94643D-01	2.0440	0.90930D-00	0.47145D-01
1.9800	0.28480D-00	0.97965D-01	2.0460	0.91837D-00	0.43511D-01
1.9820	0.30471D-00	0.10107D-02	2.0480	0.92674D-00	0.40135D-01
1.9840	0.32521D-00	0.10392D-02	2.0500	0.94478D-00	0.32211D-01
1.9860	0.34625D-00	0.10649D-02	2.0520	0.95912D-00	0.25317D-01
1.9880	0.36779D-00	0.10877D-02	2.0540	0.97028D-00	0.19489D-01
1.9900	0.38974D-00	0.11073D-02	2.0560	0.97878D-00	0.14693D-01
1.9920	0.41205D-00	0.11235D-02	2.0580	0.98513D-00	0.10849D-01
1.9940	0.43466D-00	0.11361D-02	2.0600	0.99310D-00	0.78498D-00
1.9960	0.45747D-00	0.11450D-02	2.0620	0.99543D-00	0.55568D-00
1.9980	0.48043D-00	0.11502D-02	2.0640	0.99545D-00	0.38545D-00
2.0000	0.50345D-00	0.11515D-02			

TABLE FOR THE EVALUATION OF THE FAXEN APPROXIMATION TO THE SOLUTION OF THE LAMM EQUATION

PAGE 25

$\gamma$	$\psi(\gamma, \eta)$	$D\psi(\gamma, \eta)/D\gamma$	$\gamma$	$\psi(\gamma, \eta)$	$D\psi(\gamma, \eta)/D\gamma$
1.9050	0.57129D-02	0.43504D-00	2.0020	0.52504D-00	0.10640D-02
1.9100	0.82925D-02	0.60455D-00	2.0040	0.54627D-00	0.10589D-02
1.9150	0.11844D-01	0.82524D-00	2.0060	0.56738D-00	0.10590D-02
1.9200	0.16646D-01	0.11066D-01	2.0080	0.58829D-00	0.10399D-02
1.9250	0.23026D-01	C.14575D-01	2.0100	0.60895D-00	0.10261D-02
1.9300	0.31350D-01	0.10859D-01	2.0120	0.62932D-00	0.10096D-02
1.9350	0.42022D-01	0.23969D-01	2.0140	0.64932D-00	0.99054D-01
1.9400	0.55460D-01	C.29924D-01	2.0160	0.66892D-00	0.96960D-01
1.9450	0.72083D-01	C.36699D-01	2.0180	0.68807D-00	0.94534D-01
1.9500	0.92282D-01	0.44210D-01	2.0200	0.70672D-00	0.91957D-01
1.9520	0.10144D-00	0.47391D-01	2.0220	0.72484D-00	0.89196D-01
1.9540	0.11124D-00	0.50657D-01	2.0240	0.74239D-00	0.86270D-01
1.9560	0.12171D-00	0.53993D-01	2.0260	0.75934D-00	0.83202D-01
1.9580	0.13284D-00	0.57384D-01	2.0280	0.77566D-00	0.80014D-01
1.9600	0.14466D-00	0.60814D-01	2.0300	0.79134D-00	0.76729D-01
1.9620	0.15717D-00	0.64266D-01	2.0320	0.80635D-00	0.73369D-01
1.9640	0.17037D-00	0.67720D-01	2.0340	0.82068D-00	0.69956D-01
1.9660	0.18426D-00	0.71156D-01	2.0360	0.83433D-00	0.66512D-01
1.9680	0.19883D-00	0.74553D-01	2.0380	0.84729D-00	0.63057D-01
1.9700	0.21408D-00	0.77889D-01	2.0400	0.85955D-00	0.59619D-01
1.9720	0.22998D-00	0.81142D-01	2.0420	0.87113D-00	0.56192D-01
1.9740	0.24653D-00	0.84290D-01	2.0440	0.88203D-00	0.52818D-01
1.9760	0.26369D-00	0.87311D-01	2.0460	0.89226D-00	0.49505D-01
1.9780	0.28144D-00	0.90182D-01	2.0480	0.90184D-00	0.46268D-01
1.9800	0.29975D-00	0.92881D-01	2.0500	0.91078D-00	0.43119D-01
1.9820	0.31858D-00	C.95389D-01	2.0520	0.91909D-00	0.40069D-01
1.9840	0.33778D-00	0.97685D-01	2.0550	0.93045D-00	0.35703D-01
1.9860	0.35764D-00	0.99750D-01	2.0600	0.94660D-00	0.29040D-01
1.9880	0.37777D-00	0.10157D-02	2.0650	0.95963D-00	0.23202D-01
1.9900	0.39825D-00	0.10313D-02	2.0700	0.96995D-00	0.18210D-01
1.9920	0.41901D-00	0.10441D-02	2.0750	0.97798D-00	0.14039D-01
1.9940	0.43999D-00	0.10540D-02	2.0800	0.98411D-00	0.10632D-01
1.9960	0.46115D-00	C.10611D-02	2.0850	0.98872D-00	0.79089D-00
1.9980	0.48242D-00	0.10651D-02	2.0900	0.99212D-00	0.57794D-00
2.0000	0.50373D-00	0.10661D-02	2.0950	0.99458D-00	0.41485D-00

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TABLE FOR THE EVALUATION OF THE FAXEN APPROXIMATION TO THE SOLUTION OF THE LAMM EQUATION

PAGE 26

ETA = 0.000800

Y	PSI(Y, ETA)	DPSI(Y, ETA)/DY	Y	PSI(Y, ETA)	DPSI(Y, ETA)/DY
1.9000	0.63918D-02	0.44952D-00	2.0020	0.52392D-00	0.99546D-01
1.9050	0.90210D-02	0.60884D-00	2.0040	0.54379D-00	0.99124D-01
1.9100	0.12553D-01	0.81184D-00	2.0060	0.56355D-00	0.98458D-01
1.9150	0.17224D-01	0.10658D-01	2.0080	0.58316D-00	0.97551D-01
1.9200	0.23307D-01	0.13774D-01	2.0100	0.60256D-00	0.96412D-01
1.9250	0.31104D-01	0.17526D-01	2.0120	0.62171D-00	0.95048D-01
1.9300	0.40945D-01	0.21954D-01	2.0140	0.64056D-00	0.93410D-01
1.9350	0.53173D-01	0.27074D-01	2.0160	0.65908D-00	0.91688D-01
1.9400	0.68132D-01	0.32871D-01	2.0180	0.67723D-00	0.89716D-01
1.9450	0.86149D-01	0.39291D-01	2.0200	0.70535D-00	0.80211D-01
1.9500	0.98548D-01	0.43404D-01	2.0220	0.74535D-00	0.77511D-01
1.9550	0.10751D-00	0.46237D-01	2.0240	0.76113D-00	0.74715D-01
1.9600	0.11705D-00	0.49132D-01	2.0260	0.77535D-00	0.74715D-01
1.9650	0.12717D-00	0.52079D-01	2.0280	0.79101D-00	0.71840D-01
1.9700	0.13788D-00	0.55064D-01	2.0300	0.80508D-00	0.68903D-01
1.9750	0.14919D-00	0.58075D-01	2.0320	0.81857D-00	0.65921D-01
1.9800	0.16111D-00	0.61098D-01	2.0340	0.83145D-00	0.62911D-01
1.9820	0.17363D-00	0.64117D-01	2.0360	0.84373D-00	0.59888D-01
1.9840	0.18676D-00	0.67118D-01	2.0380	0.85544D-00	0.56868D-01
1.9860	0.20048D-00	0.70084D-01	2.0400	0.86648D-00	0.53866D-01
1.9880	0.21479D-00	0.72998D-01	2.0420	0.87695D-00	0.50895D-01
1.9900	0.22967D-00	0.75844D-01	2.0440	0.88684D-00	0.47967D-01
1.9920	0.24512D-00	0.78604D-01	2.0460	0.89614D-00	0.45095D-01
1.9940	0.26111D-00	0.81261D-01	2.0480	0.90488D-00	0.42229D-01
1.9960	0.27762D-00	0.83798D-01	2.0500	0.91306D-00	0.39559D-01
1.9980	0.29462D-00	0.86198D-01	2.0520	0.92434D-00	0.35624D-01
2.0000	0.31209D-00	0.88446D-01	2.0540	0.93446D-00	0.31900D-01
1.9820	0.32999D-00	0.90526D-01	2.0560	0.94886D-00	0.28620D-01
1.9840	0.34828D-00	0.92424D-01	2.0580	0.96078D-00	0.21198D-01
1.9860	0.36694D-00	0.94126D-01	2.0600	0.97027D-00	0.16881D-01
1.9880	0.38592D-00	0.95620D-01	2.0620	0.97777D-00	0.13234D-01
1.9900	0.40518D-00	0.96895D-01	2.0640	0.98361D-00	0.10214D-01
1.9920	0.42466D-00	0.97942D-01	2.0660	0.98808D-00	0.77611D-00
1.9940	0.44434D-00	0.98753D-01	2.0680	0.99146D-00	0.58058D-00
1.9960	0.46415D-00	0.99323D-01	2.0700	0.99396D-00	0.42759D-00
1.9980	0.48405D-00	0.99646D-01			
2.0000	0.50399D-00	0.99721D-01			

TABLE FOR THE EVALUATION OF THE FAXEN APPROXIMATION TO THE SOLUTION OF THE LAMM EQUATION

PAGE 27.

ETA = 0.000900

Y	PSI(Y,ETA)	DPSI(Y,ETA)/DY	Y	PSI(Y,ETA)	DPSI(Y,ETA)/DY
1.8900	0.49141D-02	C133556D-00	2.0020	0.522302D 00	0.93864D 01
1.8950	0.68702D-02	C145173D-00	2.0040	0.54176D 00	0.93505D 01
1.9000	0.94845D-02	C159974D 00	2.0060	0.56041D 00	0.92941D 01
1.9050	0.12930D-01	C178526D 00	2.0100	0.57893D 00	0.92175D 01
1.9100	0.17409D-01	C110140D 01	2.0120	0.61540D 00	0.90060D 01
1.9150	0.23151D-01	C112913D 01	2.0140	0.63328D 00	0.88724D 01
1.9200	0.30411D-01	C116217D 01	2.0160	0.65088D 00	0.87214D 01
1.9250	0.39463D-01	C120087D 01	2.0180	0.66815D 00	0.85540D 01
1.9300	0.50594D-01	C124536D 01	2.0200	0.68508D 00	0.83712D 01
1.9350	0.64095D-01	C129558D 01	2.0220	0.70163D 00	0.81740D 01
1.9400	0.80242D-01	C135117D 01	2.0240	0.71777D 00	0.79639D 01
1.9450	0.99290D-01	C141146D 01	2.0260	0.73348D 00	0.77419D 01
1.9480	0.11220D-00	C144949D 01	2.0280	0.74873D 00	0.75094D 01
1.9500	0.12145D-00	C147545D 01	2.0300	0.76351D 00	0.72677D 01
1.9520	0.13122D-00	C150179D 01	2.0320	0.77780D 00	0.70181D 01
1.9540	0.14152D-00	C152842D 01	2.0340	0.79158D 00	0.67621D 01
1.9560	0.15236D-00	C155523D 01	2.0360	0.80484D 00	0.65010D 01
1.9580	0.16373D-00	C158211D 01	2.0380	0.81758D 00	0.62361D 01
1.9600	0.17564D-00	C160893D 01	2.0400	0.82978D 00	0.59687D 01
1.9620	0.18809D-00	C163557D 01	2.0420	0.84145D 00	0.57001D 01
1.9640	0.20106D-00	C166191D 01	2.0440	0.85258D 00	0.54315D 01
1.9660	0.21456D-00	C168781D 01	2.0460	0.86318D 00	0.51641D 01
1.9680	0.22857D-00	C171313D 01	2.0480	0.87324D 00	0.48990D 01
1.9700	0.24308D-00	C173775D 01	2.0500	0.88278D 00	0.46371D 01
1.9720	0.25808D-00	C176152D 01	2.0520	0.89179D 00	0.43795D 01
1.9740	0.27354D-00	C178431D 01	2.0540	0.90030D 00	0.41270D 01
1.9760	0.28944D-00	C180600D 01	2.0570	0.91213D 00	0.37597D 01
1.9780	0.30577D-00	C182644D 01	2.0600	0.92287D 00	0.34079D 01
1.9800	0.32249D-00	C184553D 01	2.0650	0.93852D 00	0.28613D 01
1.9820	0.33958D-00	C186313D 01	2.0700	0.95158D 00	0.23692D 01
1.9840	0.35701D-00	C187915D 01	2.0750	0.96231D 00	0.19347D 01
1.9860	0.37474D-00	C189347D 01	2.0800	0.97102D 00	0.15581D 01
1.9880	0.39273D-00	C190601D 01	2.0850	0.97799D 00	0.12375D 01
1.9900	0.41096D-00	C191670D 01	2.0900	0.98348D 00	0.96936D 00
1.9920	0.42939D-00	C192544D 01	2.0950	0.98776D 00	0.74882D 00
1.9940	0.44797D-00	C193220D 01	2.1000	0.99104D 00	0.57047D 00
1.9960	0.46666D-00	C193693D 01	2.1050	0.99353D 00	0.42861D-00
1.9980	0.48543D-00	C193958D 01	2.1100	0.99538D 00	0.31759D-00
2.0000	0.50423D-00	C194C16D 01			

LT9985

TABLE FOR THE EVALUATION OF THE FAXEN APPROXIMATION TO THE SOLUTION OF THE LAMM EQUATION

PAGE 28

ETA = 0.001000

Y	PSI(Y, ETA)	DPSI(Y, ETA)/DY	Y	PSI(Y, ETA)	DPSI(Y, ETA)/DY
1.8850	0.52342D-02	0.33673D-00	2.0020	0.52229D-00	0.89056D-01
1.8900	0.71791D-02	0.44550D-00	2.0040	0.54007D-00	0.88745D-01
1.8950	0.97356D-02	0.58210D-00	2.0060	0.55777D-00	0.88258D-01
1.9000	0.13054D-01	0.75112D-00	2.0080	0.57536D-00	0.87599D-01
1.9050	0.17309D-01	0.95119D-00	2.0100	0.59280D-00	0.86771D-01
1.9100	0.22695D-01	0.12047D-01	2.0120	0.61006D-00	0.85779D-01
1.9150	0.29430D-01	0.14973D-01	2.0140	0.62710D-00	0.84629D-01
1.9200	0.37748D-01	0.18378D-01	2.0160	0.64390D-00	0.83328D-01
1.9250	0.47891D-01	0.22278D-01	2.0180	0.66043D-00	0.81882D-01
1.9300	0.60108D-01	0.26671D-01	2.0200	0.67665D-00	0.80302D-01
1.9350	0.74640D-01	0.31533D-01	2.0220	0.69254D-00	0.78594D-01
1.9400	0.91712D-01	0.36818D-01	2.0240	0.70808D-00	0.76769D-01
1.9450	0.11152D-00	0.42455D-01	2.0260	0.72324D-00	0.74837D-01
1.9480	0.12478D-00	0.45967D-01	2.0280	0.73800D-00	0.72687D-01
1.9500	0.13421D-00	0.48348D-01	2.0300	0.75235D-00	0.70691D-01
1.9520	0.14412D-00	0.50750D-01	2.0320	0.76628D-00	0.68500D-01
1.9540	0.15451D-00	0.53165D-01	2.0340	0.77975D-00	0.66244D-01
1.9560	0.16539D-00	0.55583D-01	2.0360	0.79277D-00	0.63934D-01
1.9580	0.17674D-00	0.57996D-01	2.0380	0.80532D-00	0.61581D-01
1.9600	0.18858D-00	0.60392D-01	2.0400	0.81740D-00	0.59197D-01
1.9620	0.20090D-00	0.62276D-01	2.0420	0.82900D-00	0.56791D-01
1.9640	0.21368D-00	0.65095D-01	2.0440	0.84011D-00	0.54374D-01
1.9660	0.22693D-00	0.67379D-01	2.0460	0.85075D-00	0.51956D-01
1.9680	0.24063D-00	0.69604D-01	2.0480	0.86090D-00	0.49546D-01
1.9700	0.25477D-00	0.71759D-01	2.0500	0.87057D-00	0.47154D-01
1.9720	0.26933D-00	0.73833D-01	2.0520	0.87976D-00	0.44788D-01
1.9740	0.28430D-00	0.75816D-01	2.0540	0.88848D-00	0.42455D-01
1.9760	0.29965D-00	0.77695D-01	2.0570	0.90071D-00	0.39035D-01
1.9780	0.31537D-00	0.79463D-01	2.0600	0.91192D-00	0.35730D-01
1.9800	0.33143D-00	0.81108D-01	2.0650	0.92846D-00	0.30524D-01
1.9820	0.34780D-00	0.82622D-01	2.0700	0.94251D-00	0.25753D-01
1.9840	0.36447D-00	0.83997D-01	2.0750	0.95430D-00	0.21458D-01
1.9860	0.38139D-00	0.85223D-01	2.0800	0.96406D-00	0.17657D-01
1.9880	0.39855D-00	0.86295D-01	2.0900	0.97204D-00	0.14349D-01
1.9900	0.41590D-00	0.87206D-01	2.0950	0.98363D-00	0.91277D-00
1.9920	0.43342D-00	0.87950D-01	2.1000	0.98768D-00	0.71447D-00
1.9940	0.45107D-00	0.88523D-01	2.1050	0.99083D-00	0.55231D-00
1.9960	0.46881D-00	0.88922D-01	2.1100	0.99325D-00	0.42165D-00
1.9980	0.48662D-00	0.89145D-01	2.1150	0.99509D-00	0.31799D-00
2.0000	0.50446D-00	0.89189D-01			